

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No. ....10/765,534  
Filing Date ..... Jan. 27, 2004  
First Named Inventor ..... Geoffrey Elliott  
Assignee ..... Microsoft Corporation  
Group Art Unit ..... 2179  
Examiner ..... Rashedul Hassan  
Attorney's Docket No. .... MS1-2679US  
Title ..... Peer-To-Peer Data Binding

DECLARATION UNDER 37 C.F.R. §1.131

As the below named inventor, I hereby declare that:

I am an inventor of the subject matter which is claimed and for which a patent is sought in the application entitled "**Peer-To-Peer Data Binding**," as identified above.

I conceived and reduced the invention to practice in the United States prior to the publication date of "Introduction to Windows Peer-to-Peer Networking."

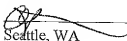
Attached to this declaration is evidence (redacted portions of a "Patent Pre-disclosure Document") documenting that the invention was conceived February 26, 2002, and reduced to practice August 25, 2002, which predates the January 2003 publication date reflected on the cited publication "Introduction to Windows Peer-to-Peer Networking."

All statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statement may jeopardize the validity of the application or any patent issued therefrom.

\*\*\*\*\*

Full name of inventor: Geoffrey J. Elliott

Inventor's Signature



Date: 01/27/07

Residence:

Seattle, WA

Citizenship:

US

Post Office Address:

121 25th Ave. South  
Seattle, WA 98144

\*\*\*\*\*

# Microsoft Patent Pre-disclosure Document

Note: Hover the pointer over underlined section headings for more help and click on a link for a sample document.

## This section contains items that are required to get the patent process under way

Document Author (name and email): Geoffrey Elliott (geoffe)

Title of Invention: Peer-to-Peer Data Binding

MS File # (if known): 306350.01

Inventor(s): Geoffrey Elliott (geoffe)

Recommended attendees for disclosure meeting:

### Introduction:

[REDACTED] focuses on building applications that provide a synchronized social experience. The experience is made up of UI elements (widgets) that communicate the current state to the user and allow the user to change that state for everyone in the group. This invention simplifies the process of building shared experiences by enabling UI widgets to synchronize their state between computers automatically without requiring additional application logic.

### Strategic Importance:

Peer-to-Peer networks are growing in importance on the internet. Data-binding has been used as an efficient way to provide for connecting UI elements on a client computer to data on a server. This invention provides a method for connecting UI elements between peer computers that greatly simplifies the process of developing synchronized social experiences.

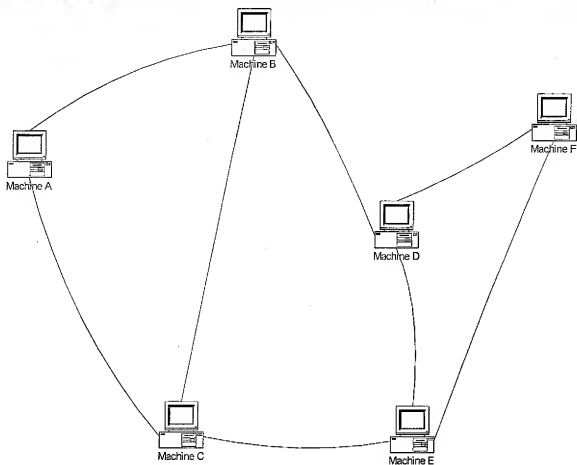
### Description of the invention:

[REDACTED] allows users to listen to shared playlist of songs together. When one user adds a song to the playlist, that song should be added, in the same position, to every other member's playlist. All changes to the playlist state (e.g. indicating the current song, removing a song, etc.) should be reflected on every peer machine.

[REDACTED] allows users to view a shared album of photos together. When one user adds a photo to the album, that photo should be added, in the same position, to every other member's album, etc.

The current invention solves this problem by implementing generalized UI widgets (e.g. Label, ListBox, Button, Image) that can be bound via COM interfaces (e.g. INetgenCollection/DNetgenCollectionEvents) to a peer-to-peer data provider (a graph). When the UI element changes the state of the data source object, the data is propagated to every member of the group by having each member forward this information to all of its neighbors. (A sends the information to B and C. B sends to C and D. C sends to B and E. D sends to F and E. E sends to D and F). Nodes that receive duplicate information (one copy from each neighbor) simply discard the duplicates and do not forward them. The data source object for each neighbor notifies their corresponding UI widgets of a change in the shared data and the UI widgets update themselves accordingly.

### Diagrams & Flowcharts:



Date of Conception: 2/26/2002

Date Reduced to Practice: 8/25/2002

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

**Administrative summary for  
"Peer-to-Peer Data Binding"**

MS: 306350.01

OC: 224295

**Date of Disclosure Meeting**

October 2, 2003

**Attendees**

**MS Technical:**

Geoffrey Elliott

**Preliminary Inventor List**

Geoffrey Elliott

**1<sup>st</sup> Draft Date**

December 5, 2003

8/13/2007

Geoffrey Elliott  
308 35<sup>th</sup> Ave.  
Seattle, WA 98122

Re: "Peer-To-Peer Data Binding"  
File No(s): MS# 306350.01 / MS1-2679US



Dear Mr. Elliott,

As the patent attorney at Lee & Hayes, PLLC now prosecuting the above referenced patent application on behalf of Microsoft Corp. before the USPTO, I am earnestly soliciting your cooperation.

On or before June 25, 2007, I understand that you had indicated via a telephone conversation with Michelle Masseau, that you were willing and able to execute the enclosed declaration of prior invention. However, since that date, numerous attempts to again contact you via telephone in order to complete the declaration have been unsuccessful.

Thus, enclosed is a **declaration of prior invention** and the associated Pre-disclosure document to refresh your memory.

At this time, I need you to sign the declaration and fax it to me at 509-323-8979. Please respond by August 24<sup>th</sup>, 2007.

Feel free to contact me if you have any questions or concerns.

Sincerely,

A handwritten signature in black ink, appearing to read "Bea Koempel-Thomas", with a long horizontal flourish extending to the right.

Bea Koempel-Thomas  
[bea@leehayes.com](mailto:bea@leehayes.com)  
(509) 324-9256 ext 259  
(509) 323-8979 Fax

Enclosures: As above

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Continuation

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